

**User's Manual**

**840UBI**

**BLUETOOTH®-ENABLED  
MP3-COMPATIBLE  
IN-DASH CD RECEIVER  
WITH FULL iPod® CONTROL  
WITH USB AND SD MEMORY CARD PORTS  
AND FRONT PANEL AUX INPUT**



BOSS Audio Systems is not affiliated with Apple, Inc.

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01.2010

**tech support: [www.bosssaudio.com/support](http://www.bosssaudio.com/support)**



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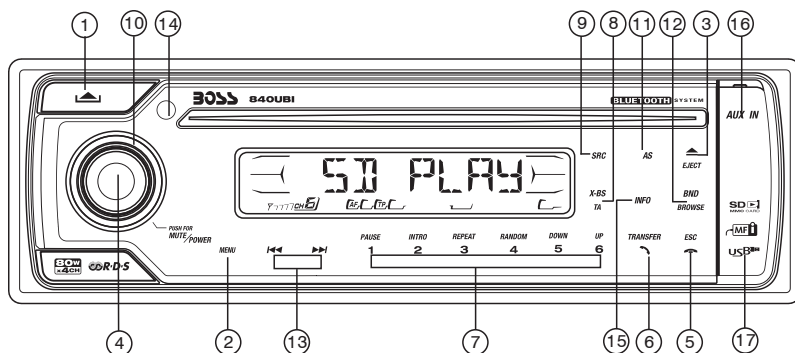
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**BOSS®  
AUDIO SYSTEMS**

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# 1. BUTTONS LOCATION AND FUNCTIONS



## EN

1. Panel Release Button
2. Menu Button
3. CD Eject Button
4. Power / Mute Button
5. Reject / End Call Button / ESC Button
6. Phone Answer Button / Call Transfer Button
7. Preset Memory Buttons
8. iX-Bass Button / TA Button
9. Source Button
10. Volume Knob
11. Automatically Store / Preset Scan Button
12. Band/MP3 Search Button
13. Tuning Up/Down & Track Up / Down Buttons
14. Remote Control Receiver
15. Information Button
16. Aux In Jack
17. USB Slot

## PT

1. Tecla para remover o painel frontal
2. Tecla de ajuste de menu
3. Tecla para ejetar o disco
4. Tecla Ligar/desligar & Tecla Mute
5. Apagar Arquivo & Rejeitar / Encerrar Uma Chamada / Tecla ESC
6. Tecla Para Atender O Telefone / Transferir a Chamada
7. Teclas de memória de estações
8. Função iX-BASS / Tecla TA
9. Tecla Source
10. Controle de volume
11. Memorização automática (As) / Preset Scan (Ps)
12. Tecla Banda / MP3 Search
13. Teclas de sintonização de estações / mudança de faixas de música
14. Sensor do controle remoto
15. Informação MP3-ID3
16. Entrada Auxiliar
17. Entrada USB

## DE

1. Entriegel-Taste Bedienteil
2. Menu-Taste
3. CD-Auswurf-taste
4. Stumm-Taste / Einschalt-Taste
5. Anruf annehmen / ESC-Taste
6. Taste/Anruf annehmen / Anruf Transfer
7. Senderspeichertasten
8. iX-Bass-Taste / TA-Taste
9. Source-Taste
10. Lautstärkenregler
11. AMS Taste / MP3 Suchlauf Taste
12. Frequenzband-Taste / MP3 Eingabe-Taste
13. Titel AUF / AB - Taste
14. Fernbedienungs-Taste
15. INFO-Taste
16. Front-Audio-Anschluss
17. USB -Taste

## ES

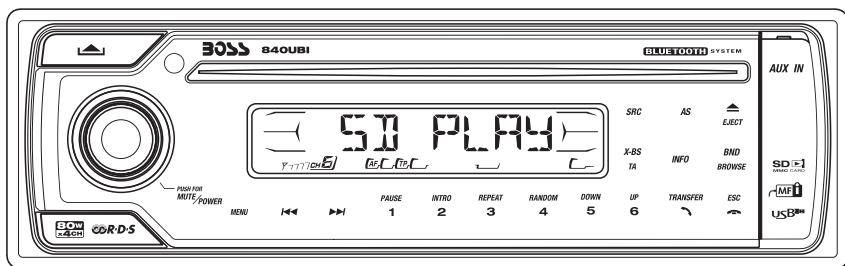
1. Extracción del panel frontal
2. Tecla Menu
3. Apertura del panel motorizado y expulsión del disco
4. Silenciamiento rápido / Encendido/Apagado
5. Rechazar llamada Terminar llamada / Botón ESC
6. Contestar teléfono / Transferir llamada
7. Botones de estaciones memorizadas
8. Botón iX-Bass / Botón TA
9. Selección modos Radio/CD/Entrada auxiliar
10. Botón De Volumen
11. Memorización Automática de emisoras / selección de memorias
12. Selector Bandas / Bajos/MP3
13. Botón de selección de emisoras & banda de música
14. Receptor de control remoto
15. ID3 TAG muestra
16. Entrada de auxiliar
17. Entrada de USB

## FR

1. Bouton De Déclenchement Du Panneau
2. Bouton De Sélection Menu / Entrée De MP3
3. Bouton D'ejection D'un Cd
4. Bouton D'assourdissement / Bouton D'alimentation
5. Supprimer Fichier / Annuler / Bouton ESC
6. Téléphone/Répondre Appeler / Transfert Appe
7. Boutons Des Stations Préréglées (m1 ~ m6)
8. Bouton De iX-Bass / Bouton TA
9. Bouton De Régime
10. Bouton De Volume
11. Bouton De Stockage Des Stations Dans La Mémoire
12. Bouton De Bande / Entrée De MP3
13. Bouton De Recherche Des Stations/pistes : En Avant / En Arrière
14. Récepteur De La Commande À Distance
15. Affichage D'information Sur Les Disques MP3
16. Aux A Jack
17. USB Slot

## IT

1. Tasto Rilascio Frontalino
2. Menu Controlla
3. Tasto Eject
4. Tasto Mute / Tasto Power
5. Rifiuta/termina chiamata / Tasto ESC
6. Telefono Risposta / Trasferimento chiamata
7. Tasti Stazioni Memorie Preimpostate
8. Bottone Bassi / Bottone TA
9. Tasto Mode
10. Tasto Volume
11. Tasto Menu & AS/PS
12. Tasto Banda/Forte & Enter MP3
13. Tasto sintonizzazione su/gui & traccia su/gui
14. Destinatario di controllo remoto
15. Tasto informazioni
16. Entrata Aux
17. Entrata Usb



## **BUTTON LESS** **TOUCH PAD PANEL**

This radio is equipped with the most advanced "TOUCH SENSE PANEL", so that it is easy and convenient to use while driving.

**Tips** Here are some tips to show you how easy it is to use this touch sense panel:

- Using a very light touch on the radio panel will activate that feature. You will not need to "PRESS" hard on the panel to make this radio change features.
- The power button along with some of the buttons that have dual functions, will need to be "TOUCHED" from 2 to 3 seconds to make the change.
- The best area to "TOUCH" on the panel to make it activate is the illuminated or lighted area. For example, just touch for 2 to 3 seconds the illuminated power symbol and the unit will turn on or off.

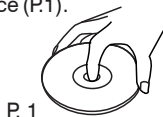
## 2. NOTE OF DISCS

### MOISTURE CONDENSATION

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

### NOTES ON CDS

1. A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows. Handle the disc by its edge. To keep the disc clean, do not touch the surface (P.1).



2. Do not stick paper or tape on the disc (P.2).



3. Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car (P.3).



4. Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the centre out (P.4).



5. Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog discs.

### NOTES ON DISCS

If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.

Do not use second-hand or rental CDs that have a sticky residue on the surface (for example, from peeled-off stickers or from ink, or glue leaking from under the stickers).

**There are paste residue.  
Ink is sticky (P.5).**



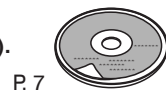
Do not use rental CDs with old labels that are beginning to peel off.

**Stickers that are beginning  
to peel away, leaving a  
sticky residue (P.6).**



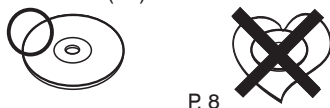
Do not use your CDs with labels or stickers attached.

**Labels are attached (P.7).**



**Do Not Use Special Shape CDs**

Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction. (P.8).



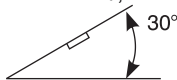
Be sure to use CDs with disc mark

CD-Rs and CD-RWs which have not undergone finalization processing cannot be played. (For more information on finalization processing, refer to the manual for your CD-R/CD-RW writing software or CD-R/CD-RW recorder.) Additionally, depending on the recording status, it may prove impossible to play certain CDs record on CD-R or CD-RW.



### 3. INSTALLATION

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



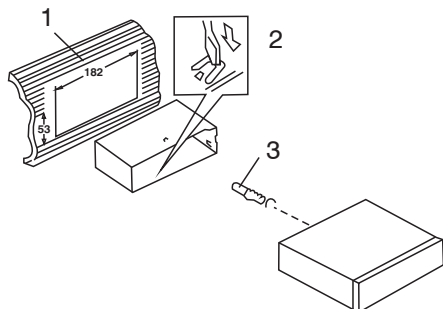
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
- Be sure to remove the front panel before installing the unit.

#### DIN FRONT/REAR-MOUNT

This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods A and B.

##### DIN FRONT-MOUNT (Method A)

###### Installation the unit

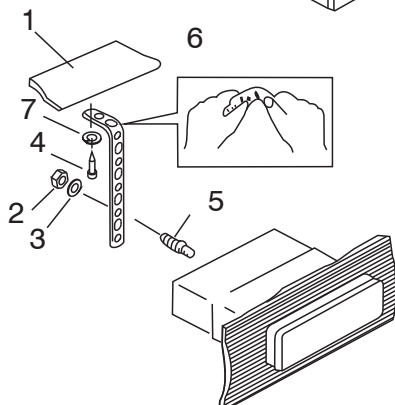


1. Dashboard

2. Holder

After inserting the half sleeve into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in place.

3. Screw



1. Dashboard

2. Nut (5mm)

3. Spring washer

4. Screw (4x12mm)

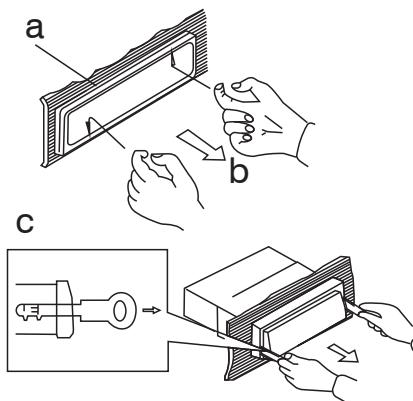
5. Screw

6. Support Strap

Be sure to use the support strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.

7. Plain washer

## Removing the unit



- a. Frame
- b. Insert fingers into the groove in the front of frame and pull out to remove the frame. (When re-attaching the frame, point the side with a groove down wards and attach it.)
- c. Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.

## Trim Plate Installation:

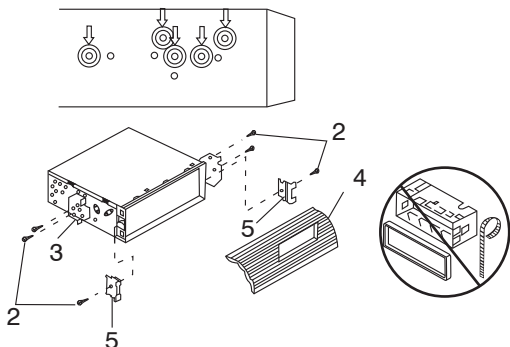
Push the trim plate against the chassis until it is fitted.

**You must do this before you install the front panel, otherwise it can't be attached.**

## DIN REAR-MOUNT (METHOD B)

Installation using the screw holes on the sides of the unit.

Fastening the unit to the factory radio mounting bracket.



1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted) and tighten the screws at 2 places on each side.
2. Screw
3. Factory radio mounting bracket.
4. Dashboard or Console
5. Hook (Remove this part)

Note: the mounting box, outer trim ring, and half-sleeve are not used for method B installation.

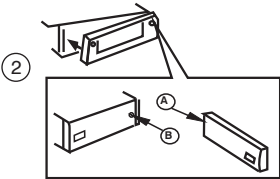
# 4. DETACHABLE CONTROL PANEL (D.C.P.)

## Removing The Detachable Control Panel (D.C.P.).



1. Turn the power off
2. Press the D.C.P. release button
3. Remove the D.C.P.

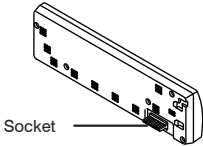
## Attaching the DCP



1. Attach the panel at the right side first, with point B on the main unit touching point A on the D.C.P. (As shown on the diagram).
2. Then press the left side of D.C.P. onto the main unit until a "click" sound is heard.

## CAUTION

- DO NOT insert the D.C.P. from the left side. Doing so may damage it.
- The D.C.P. can easily be damaged by shocks. After removing it, place it in a protective case and be careful not to drop it or subject it to strong shocks.
- When the release button is pressed and the D.C.P. is unlocked, the car's vibrations may cause it to fall. To prevent damage to the D.C.P. always store it in a protective case after detaching it.
- The rear connector that connects the main unit and the D.C.P. is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.

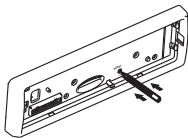


## Note:

If the D.C.P. is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the D.C.P.

## RESETTING THE UNIT:

- After releasing the front panel, use a pencil or any non-metalic object to press & hold the reset button for five seconds to reset the unit.



5. WIRING DIAGRAM (BUILT-IN ISO)

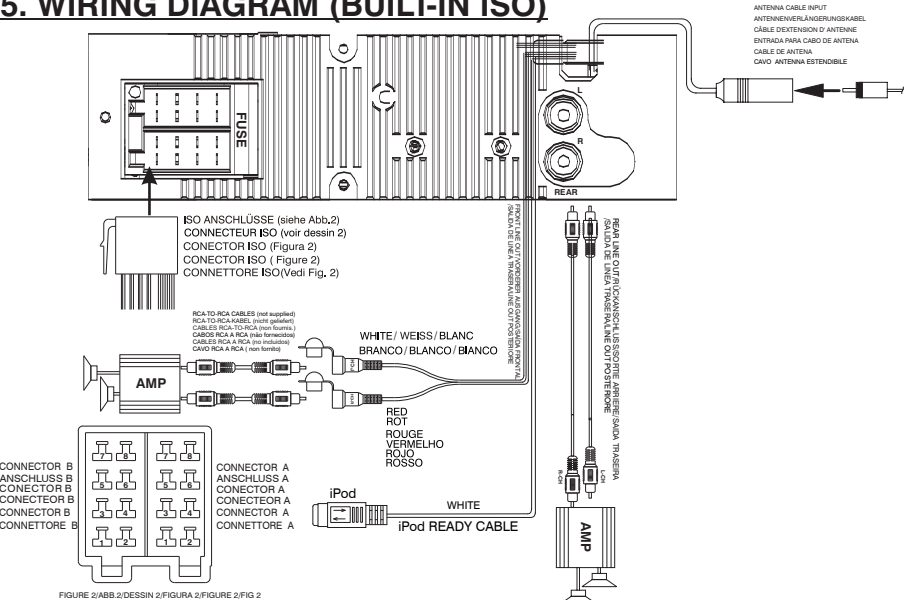


FIGURE 2/ABB.2/DESSIN 2/FIGURA 2/FIG. 2

EN

CONNECTOR WIRING CHART

PIN	WIRE COLOR	FUNCTION/LABEL
A4	YELLOW	CONSTANT 12 VOLTS
A5	BLUE	POWER ANTENNA/REMOTE TURN ON
A7	RED	IGNITION (ACC)
A8	BLACK	GROUND
B1	VIOLET	RIGHT REAR SPEAKER (+)
B2	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
B3	GREY	RIGHT FRONT SPEAKER (+)
B4	GREY/BLACK	RIGHT FRONT SPEAKER (-)
B5	WHITE	LEFT FRONT SPEAKER (+)
B6	WHITE/BLACK	LEFT FRONT SPEAKER (-)
B7	GREEN	LEFT REAR SPEAKER (+)
B8	GREEN/BLACK	LEFT REAR SPEAKER (-)

FR

PLAN DE CABLAGE

FICHE	COULEUR DU CÂBLE	FONCTION / MARQUE
A4	JAUNE	BATTERIE (+)
A5	BLEU	PUISSANCE ANTENNE
A7	ROUGE	IGNITION (ACC)
A8	NOIR	TERRE
B1	VIOLET	HAUT PARLEUR COTE DROIT (+)
B2	VIOLET/NOIR	HAUT PARLEUR COTE DROIT (-)
B3	GRIS	HAUT PARLEUR AVANT DROIT (+)
B4	GRIS/NOIR	HAUT PARLEUR AVANT DROIT (-)
B5	BLANC	HAUT PARLEUR AVANT GAUCHE (+)
B6	BLANC/NOIR	HAUT PARLEUR AVANT GAUCHE (-)
B7	VERT	HAUT PARLEUR COTE GAUCHE (+)
B8	VERT/NOIR	HAUT PARLEUR COTE GAUCHE (-)

ES

TABLA DE CONEXIONES EN CONECTORES

PIN	COLOR DE CABLE	FUNCI
A4	AMARILLO	+12V PERMANENTE
A5	AZUL	SALIDA ANTENA AUTOMÁTICA
A7	ROJO	+12V CONTACTO (ACC)
A8	NEGRO	MASA
B1	VIOLETA	ALTAVOZ TRASERO DERECHO (+)
B2	VIOLETA/NEGRO	ALTAVOZ TRASERO DERECHO (-)
B3	GRIS	ALTAVOZ FRONTAL DERECHO (+)
B4	GRIS/NEGRO	ALTAVOZ FRONTAL DERECHO (-)
B5	BLANCO	ALTAVOZ FRONTAL IZQUIERDO (+)
B6	BLANCO/NEGRO	ALTAVOZ FRONTAL IZQUIERDO (-)
B7	VERDE	ALTAVOZ TRASERO IZQUIERDO (+)
B8	VERDE/NEGRO	ALTAVOZ TRASERO IZQUIERDO (-)

DE

SCHALTPLAN ANSCHLUSS

PIN	KABELFARBE	FUNKTION / ETIKETT
A4	GELB	BATTERIE (+)
A5	BLAU	MOTORANTENNE
A7	ROT	ZÜNDUNG (ACC)
A8	SCHWARZ	ERDUNG
B1	VIOLETT	RECHTER REARLAUTSPRECHER (+)
B2	VIOLETT/SCHWARZ	RECHTER REARLAUTSPRECHER (-)
B3	GRAU	RECHTER FRONTLAUTSPRECHER (+)
B4	GRAU/SCHWARZ	RECHTER FRONTLAUTSPRECHER (-)
B5	WEISS	LINKER FRONTLAUTSPRECHER (+)
B6	WEISS/SCHWARZ	LINKER FRONTLAUTSPRECHER (-)
B7	GRÜN	LINKER REARLAUTSPRECHER (+)
B8	GRÜN/SCHWARZ	LINKER REARLAUTSPRECHER (-)

PT

TABELA DE CONEXÕES

PIN	COR DO FIO	FUNÇÃO/ETIQUETA
A4	AMARELO	BATERIA (+)
A5	AZUL	ANTENA ELÉTRICA
A7	VERMELHO	IGNIÇÃO
A8	PRETO	MASSA (FIO TERRA)
B1	VIOLETA	ALTO-FALANTE TRASEIRO DIREITO (+)
B2	VIOLETA/PRETO	ALTO-FALANTE TRASEIRO DIREITO (-)
B3	CINZA	ALTO-FALANTE DIANTEIRO DIREITO (+)
B4	CINZA/PRETO	ALTO-FALANTE DIANTEIRO DIREITO (-)
B5	BRANCO	ALTO-FALANTE DIANTEIRO ESQUERDO (+)
B6	BRANCO/PRETO	ALTO-FALANTE DIANTEIRO ESQUERDO (-)
B7	VERDE	ALTO-FALANTE TRASEIRO ESQUERDO (+)
B8	VERDE/PRETO	ALTO-FALANTE TRASEIRO ESQUERDO (-)

IT

SCHEMA DI COLLEGAMENTO

PIN	COLOR CAVO	FUNZIONE
A4	GIALL	BATTERIA (+)
A5	BLU	ANTENNA DI POTENZA
A7	ROSSO	ACCENSIONE (ACC)
A8	NERO	TERRA
B1	VIOLA	CASSA DESTRA POSTERIORE (+)
B2	VIOLA/NERO	CASSA DESTRA POSTERIORE (-)
B3	GRIGIO	CASSA DESTRA ANTERIORE (+)
B4	GRIGIO/NERO	CASSA DESTRA ANTERIORE (-)
B5	BIANCO	CASSA SINISTRA ANTERIORE (+)
B6	BIANCO/NERO	CASSA SINISTRA ANTERIORE (-)
B7	VERDE	CASSA SINISTRA POSTERIORE (+)
B8	VERDE/NERO	CASSA SINISTRA POSTERIORE (-)



## 6. BASIC OPERATIONS

### 2) PANEL RELEASE BUTTON (REL)

Press this button to remove the control panel.

### 3) POWER ON/OFF BUTTON ( POWER/MUTE )

Press POWER/MUTE button or any other button on the front of the radio (except Open/Eject) to turn the unit on. And hold & press POWER/MUTE button again to turn the unit off.

### 3) MUTE BUTTON (POWER/MUTE)

Short press the POWER/MUTE button momentarily to mute the audio volume, and "MUTE" will flash in the display. Press the POWER/MUTE button again to restore volume to the previous setting.

### 10) iX-BASS BUTTON (XBS)

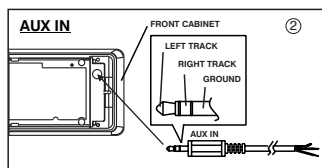
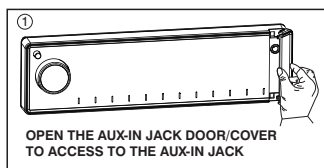
Press the XBS button to turn on the iX-Bass function, and the "X-BAS" icon will appear on the LCD display. Press the XBS button again to turn off the iX-Bass function.

### MODE BUTTON (MODE)

Press MODE button to select a different mode of operation as indicated on the display panel. Available modes include TUNER, DISC, USB, SD CARD BT AUDIO iPod and Aux In

### 16) AUX IN JACK ON FRONT PANEL

Connect the external signal to AUX in jack located at the front of the panel, then press Mode button to select Aux mode. Press Mode Button again to cancel Aux Mode and return to previous mode.



### 5) ENCODER VOLUME BUTTON

To increase the volume, rotate the Encoder Volume Knob clockwise. To decrease the volume, rotate the Encoder Volume Knob counter clockwise. When volume is adjusted, the volume level will be shown on the display panel as a number ranging from 0 (lowest) to 46 (highest).

### 15) EJECT BUTTON (▲)

Press this button to eject the CD from the unit. The receiver will switch to radio mode automatically.

## **7. SYSTEM MENU SETTING**

### **1) MENU FUNCTION LIST (MENU)**

Hold & Press MENU button to access into the System Menu setting mode. *MENU* Will appear in the display momentarily. Navigate the menu by pressing MENU momentarily to move to the next option. Once the desired option appears in the display, adjust that option by rotating the Encoder Volume Knob (press the volume up / down button ) within 5 seconds. The following options are adjusted through this menu feature.

#### **Re-connection (RE-CON / DIS-CON )**

This feature allows to Re-connect or Dis-connect to the paired mobile phone or Bluetooth device by manually. Under the Menu- "RE-CON" mode, Rotate the Encoder Volume Knob to navigate thru "RE-CON" (re-connection) and "DIS-CON" (Dis-connection). After selected the mode for connection then press Audio button to start activating the connection mode.

#### **Bluetooth On/Off (BT On/Off)**

User can rotate the Encoder Volume Knob to turn On / Off the Bluetooth function, then the "Bluetooth" icon will be appear in the display, once bluetooth function is turned on.

#### **Local / Distance Select (SEEK LOC/DX)**

This feature is used to designate the strength of the signals at which the radio will stop during automatic tuning. "Distance" is the default, allowing the radio to stop at a broader range of signals. To set the unit to select only strong local stations during automatic tuning, rotate the Encoder Volume Knob (Press the volume up/down button) select the Local mode, the "LOC" icon will be appears in the display.

#### **PTY (Program Type)**

Once into the PTY mode, you can be press Audio button to get into program type item, and rotate Encoder Volume Knob to selected category.

<b>Music Group</b>	<b>Speech Group</b>
POP M, ROCK M	NEWS, AFFAIRS, INFO
EASY M, LIGHT M	SPORT, EDUCATE, DRAMA
CLASSICS, OTHER M	CULTURE, SCIENCE, VARIED
JAZZ M, COUNTRY	WEATHER, FINANCE, CHILDREN
NATION M, OLDIES M	SOCIAL, RELIGION, PHONE IN
FOLK M, A-TEXT, ALARM	TRAVEL, LEISURE, DOCUMENT

#### **AF ON/OFF (Alternate Frequencies)**

User can rotate the Encoder Volume Knob to turn On / Off the AF ( Alternate Frequencies ) function. When AF in On mode, the unit will be searches for another station with stronger signal but with the same program identification as the current station automatically.

#### **REG ON/OFF (Regional Radio)**

User can rotate the Encoder Volume Knob to turn On / Off the Regional function.

[REG ON]: Only stations in the current region can be tuned to automatically.

[REG OFF]: All stations can be tuned to automatically.

#### **AREA (TUNER FREQUENCY SPACING)**

This option allows the selection of the frequency spacing appropriate for your area. "AREA U.S.A." is the default setting. Rotate the Encoder Volume Knob to select the U.S.A., EUR(Europe)

### **BEEP ON/OFF ( Beep Tone )**

The beep tone feature allows the selection of an audible beep tone to be heard each time a button is pressed on the face of the radio. "BEEP ON" is the default display. Rotate the Encoder Volume Knob (Press the volume up/down button) to select the "BEEP OFF" option.

### **BTRF (Bluetooth Radio Frequency)**

Under the Bluetooth On mode, user can get into the System Menu to view the Bluetooth signal intensity, the signal ranging from 00 (weakest) to 50 (strongest).

**NOTE** If the Bluetooth signal is weak, this will affect the Telephone call or Audio Streaming sound quality.

### **INFO SYS ( System Information )**

Once into the System Information mode, press the Audio button to view the details system software informations of this unit.

## **8. ADJUST AUDIO SETTING**

Press MENU button to access the Audio Menu. Once the desired menu item appears on the display, adjust that option by rotate the Encoder Volume Knob. The following menu items can be adjusted as described above.

### **BAS (Bass Level)**

- User has 5 seconds to use the Encoder Volume Knob to adjust the desired Bass level range from -10 to +10.

### **TRE (Treble Level)**

- User has 5 seconds to use the Encoder Volume Knob to adjust the desired Treble level range from -10 to +10.

### **BAL (Balance)**

- User has 5 seconds to use the Encoder Volume Knob to adjust the Balance between the right and left speakers from 10R (full right) to 10L (full left). "C00" represents an equal balance between the right and left speakers.

### **FAD (Fader)**

- User has 5 seconds to use the Encoder Volume Knob to adjust the Fader between the front and rear speakers from 10R (full rear) to 10F (full front). "C00" represents an equal balance between the front and rear speakers.

## 9. TUNER OPERATION

### 8) **BAND BUTTON (BROWSE/BAND)**

Press BROWSE/BAND button to change between FM bands and AM(MW)

### 14) **TUNING UP/DOWN BUTTON (◀▶)**

#### Manual Tuning

Hold & press the Up Tuning or Down Tuning button to move the radio frequency number up or down one step.

#### Auto Seek Tuning

Press the Up Tuning or Down Tuning button to move to next station automatically.

### 11) **PRESET STATIONS BUTTONS**

Six numbered preset buttons store and recall stations for each band.

#### Store a Station

Select a band (if needed), then select a station. Hold a preset button for 3 seconds. The preset number will appear in the display.

#### Recall a Station

Select a band (if needed). Press a preset button to select the corresponding stored station.

### 9) **AUTOMATICALLY STORE / PRESET SCAN (AS)**

#### Automatically Store

Automatically select 6 strong stations and store them in the current band. Select a band (if needed). Press AS button for more than three seconds. The new stations replace stations already stored in that band.

#### Preset Scan

Scan stations stored in the current band. Select a band (if needed). Press AS button for less than 3 seconds. The unit will pause for ten seconds at each preset station. Press AS button again to stop scanning when the desired station is reached.

### **STEREO**

The unit will automatically pick up a stereo signal, when available. When in stereo mode, the ST icon appears in the display. When no stereo signal is available, the unit will automatically revert to mono operation, and no icon will be displayed.

## **10. RDS OPERATION**

### **RDS functions**

The unit is equipped with the following RDS function:

- AF Alternative Frequencies
- CT Clock Time
- PI Program identifications
- PS Program service name
- PTY Program Type
- TA Traffic Announcement
- TP Traffic program

#### **1. TA Function**

Hold & press the XBS/TA button to turn On the TA standby mode, the "TA" icon will be appear in the display. In the stand by mode, when a traffic announcement broadcast starts, the traffic announcement broadcast will be received as top priority regardless of the function mode. When a traffic announcement starts, "TRAFFIC INFO" will show on the LCD, press the TA button can cancelled the broadcast reception while a traffic announcement broadcast is being received. The unit will go back to the previous mode and TA goes into stand by mode again. When the TP icon is not light up for 60 seconds. A beep Alarm tone is heard and the LCD will show "Lost TP, TA". TA seek will automatic activate and searches to another TA station.



## **11. CD /MP3/WMA OPERATION**

### **INSERT AND EJECT CD**

Insert a CD label-side up with the unit turned on, and the disc will begin to play. Press the Eject button to stop CD play and eject the CD. The unit does not have to be turned on to eject the CD.

### **CD-DA OPERATION**

#### **PAUSE BUTTON ( ⏸ )**

Press the PAUSE button to suspend disc play. Press the PAUSE button again to resume disc Play.

#### **14 ) TRACK SELECT ( ⏮ ⏭ )**

Press the Up Tuning or Down Tuning button ( ⏮ ⏭ ) for less than one second to advance to the next track on the CD, The selected track number will appear on the display. Press and hold the Up Tuning or Down Tuning button ( ⏮ ⏭ ) for more than one second to fast forward or fast reverse through the disc. CD play starts when the button is released.

#### **M2) INTRO BUTTON (INT)**

During disc play, press INT (Intro) button to play the first 10 seconds to each track on the disc. When the desired track is reached, press INT (Intro) button again to end the scan and play the selected track.

#### **M3) REPEAT BUTTON (RPT)**

Press RPT (Repeat) button during disc play to continuously repeat the track. Press RPT (Repeat) button again to stop Repeating.

#### **M4) RANDOM BUTTON (RDM)**

Press RDM (Random) button during disc play to play all tracks on a CD in random, shuffled order. Press RDM (Random) again to stop random play.

### **MP3/WMA OPERATION**

MP3 and WMA (Windows Media Audio) music files are audio compression format. This unit can play MP3/WMA directly from files contained on a CD-R/RW, USB Memory Stick, SD Card.

#### ***Notes on MP3/WMA Play***

This unit can play MP3 (MPEG1, 2, 2.5 Audio Layer 3). However, the MP3 recording media and accepted formats are limited. When writing MP3/WMA, pay attention to the following restrictions.

#### **Acceptable Medium Formats**

The following formats are available for the media used in this unit. The maximum number of characters used for file name including the delimiter (".") and three-character extension are indicated in parentheses.

- ISO 9660 Level 1 (11 characters)
- ISO 9660 Level 2 (31 characters)
- Joliet (31 characters)
- Romeo (31 characters)

Up to 200 characters can be displayed in the long file name format. For a list of available characters, see the instruction manual of the writing software and the section "Entering File and Folder Names" below. The media reproducible on this unit has the following limitations:

- Maximum number of nested folders: 8
- Maximum number of files per disc: 2000
- Maximum number of files per media device: 2000
- Maximum number of folders per disc: 255

MP3/WMA written in the formats other than the above may not be successfully played and their file names or folder names may not be properly displayed.

### **MP3/WMA Encoder and CD Writer Settings**

Use the following settings when compressing audio data in MP3 data with the MP3 encoder.

- Transfer bit rate : 32- 320 kbps
- Sampling frequency : 32,44.1,48 kHz(WMA) 16,22.05,24,32,44.1, 48kHz (MP3)

When using a CD writer to record MP3/WMA up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to the maximum capacity at once, check disc at once.

### **Entering ID3 Tag**

This unit supports ID3 tag versions 1.0 and 1.1.

### **Entering File and Folder Names**

Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly. The unit recognizes and plays only files with the MP3/WMA extension.

** A file name entered with characters not on the code list may not play correctly.**

### **Writing Files into a Media**

When a media containing MP3/WMA data is loaded, the unit checks all data. If the media contains many folders or non-MP3/WMA files, MP3/WMA play will be delayed, it may take time for the unit to move to the next file, and searches may not be performed smoothly. Loading such a media may produce loud noise and cause damage to the speakers. ***Do not attempt to play a media containing a non-MP3/WMA file with the MP3/WMA extension or a media containing non MP3/WMA files.***

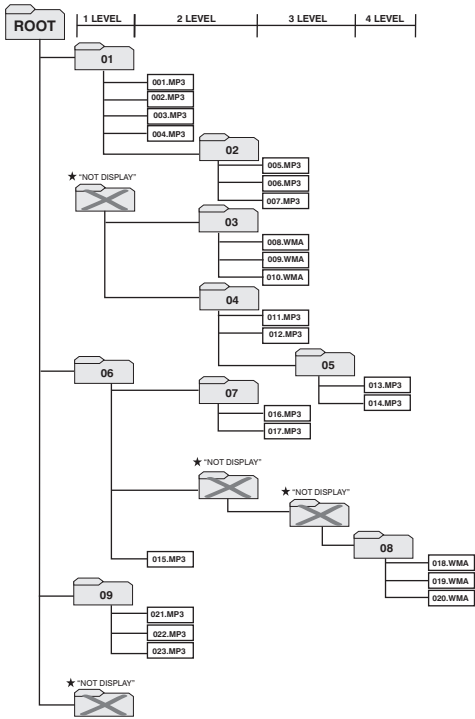
### **Bit Rates**

The unit supports bit rates from 32 - 320 kbps.

### Files Playing Order

When selected for play, Folder Search, File Search or Folder Select, files and folders are accessed in the order in which they were written by the PC writer. Because of this, the order in which they are expected to be played may not match the order in which they are actually played. For example, a media with the following folder/file hierarchy is subject to Folder Search, File Search or Folder Select as shown below.

- An outline of a Media with MP3/WMA is shown below. Subfolders are shown as folders in the folder currently selected.



- The equipment assigns folder numbers. The user can not assign folder numbers.
- ★ It is not possible to check folders that do not include MP3/WMA files. (These folders will be skipped without displaying the folder number and name)

### FILE/FOLDER PLAY

There are three different play methods as following:

#### File/Folder Intro play:

- Press M2 button more than 3 seconds during playing MP3/WMA disc for “intro play” all files of the current folder. Intro play should restart from the first song of the current folder, after all files in the current files have been intro-played.  
To disable current folder “intro play”, long press M2 button more than 3 seconds
- Press M2 button less than 3 seconds is “intro play” all files on the disc. Intro play should restart at the very first file of the disc after all files in the disc has been intro played.  
To disable all files “intro play”, press M2 button less than 3 seconds

### **File/Folder Repeat play :**

- Press M3 button more than 3 seconds during playing MP3/WMA disc for "repeat play" all files of the current folder. And keep on repeat playing the current folder until "repeat play" is disabled.  
To disable current folder "repeat play", long press M3 button more than 3 seconds
- Press M3 button less than 3 seconds to "repeat play" the current file. And keep on repeat playing the current file until the "repeat play" is disabled.  
To disable current file "repeat play", press M3 button less than 3 seconds

### **File/Folder Random play:**

- Press M4 button more than 3 seconds during playing MP3/WMA disc to "random play" all files of the current folder.  
To disable current folder "random play", long press M4 button more than 3 seconds
- Press M4 button less than 3 seconds is "random play" all files on the disc.  
To disable all file " random play", press M4 button less than 3 seconds.

### **Folder Up / Down Play**

- Press M5 button less than 3 seconds to One Folder Down
- Press M6 button less than 3 seconds to One Folder Up

## **MP3/WMA File or Folder Search**

### **Direct File Number Searching**

Press BROWSE/BAND button. The LCD will display **00NUMBER**, and the **00** will blink. Rotate the Encoder Volume Knob to select the desired track number, then press enter to confirm and play the selected file.

### **Folder / Files Navigate Searching**

Press BROWSE/BAND button twice. The LCD will display **00BROWSE**, and the **00** will blink. Rotate the Encoder Volume Knob to navigate through all folders and sub-folders on the disc. The folder names will be displayed on the LCD. Press the select knob for more than three seconds to play the first file in the folder. Press the select knob for less than three seconds to access the sub-folders or files. Rotate the Encoder Volume Knob to navigate, then press the select knob to confirm and begin file play. During navigation search, press PS or rotate the Encoder Volume Knob counterclockwise to move back to the last upper level of a folder.

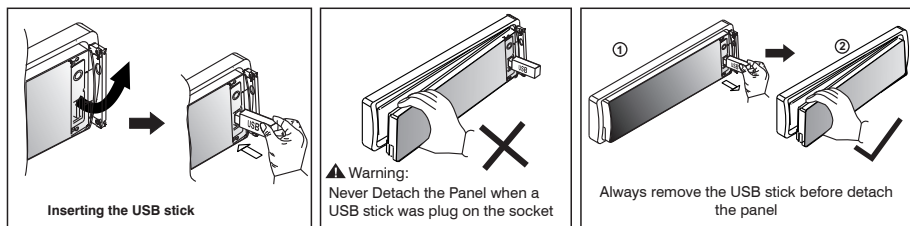
## **ID3 INFORMATION DISPLAY**

If any MP3/WMA file recording with ID3 Tag information. The ID3 information such like Album title, Track title, Artist Title will be displayed and automatic scrolling through the LCD while the file is playing. User also allows pressing the INFO button repeatedly to view the ID3 tag information manually.

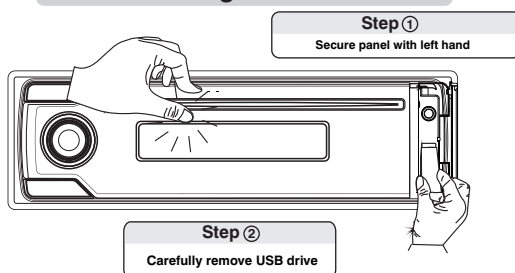
## 12. USB OPERATION

The unit can support USB Host Function. It can playback MP3 and WMA Audio format which are stored into USB Memory Stick or USB interface Music Player. Please read below before you start the operation of USB HOST Function.

### Inserting and Removing USB Drive



### Removing USB Drive



### Mode change to USB HOST

Under any other mode while inserting a USB Stick into the front panel USB plug, the unit will automatically switches from present playing mode to USB Host mode. The unit will display **USB** for a while then starts **READY** the files contained on the USB Stick. Once the unit read the USB Stick successfully, the first audio music file on the USB stick Playback will Automatically start. Press Mode button repeatedly to change to other modes or switch back to USB HOST.

### ▲ WARNING:

Before remove the USB stick from the Front panel USB plug. Always remember to switch off the unit's power or switch to other mode then remove out the USB Stick. Never try removing the USB Stick while playing music file on the USB stick. It may damage the USB Stick and sometimes will caused the unit system lock up.

**NOTE** The unit can support playback Music Player which have USB Interface. However due to the fast changing decoder technology and different kind of hardware interface. This unit may or may not be compatible to all the Music Player and USB Stick especially those USB Stick / Player which require to install a program driver.

**NOTE** About Music Flash Player with USB Interface, Usually, the unit takes longer time to read this kind of player than normal USB Stick. Especially, if the Flash Player with built-in power battery sometimes takes 20-30 seconds to start up the playback

**NOTE** The unit is not compatible to playing any Portable Hard disk.

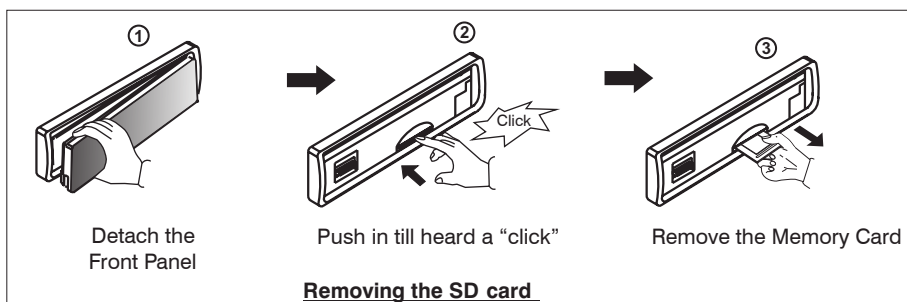
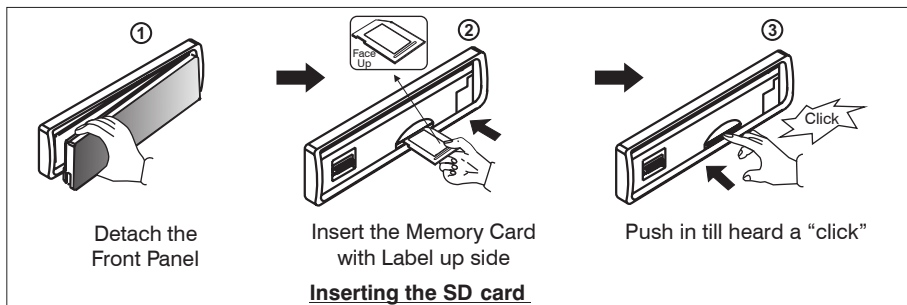
### Music File Playback Operation

All the USB playback operation function is same as the operation on CD/MP3/WMA. Please refer to 'CD/MP3/WMA Operation' for more details.

### 13. MEMORY CARD OPERATION

The unit can support playback MP3 and WMA Audio format which are stored into SD Card. Please read below before you start the operation of Memory Card.

#### Inserting and Removing a SD card on the main unit



#### **Mode change to SD Card**

After a SD card was inserted into the main unit card slot. Press Mode button to select **SD CARD** mode, the unit will automatically playback files contained from the SD Card. Press Mode button repeatedly is allowing changing to other modes or switch back to SD Card mode.

**NOTE** If no any SD Card is inserted into the main unit card slot. Press mode button will automatically skip SD CARD mode.

#### **Music File Playback Operation**

All the SD Card playback operation function is same as the operation on CD/MP3/WMA. Please refer 'CD/MP3/WMA Operation' for more details.



## 14. iPod OPERATION

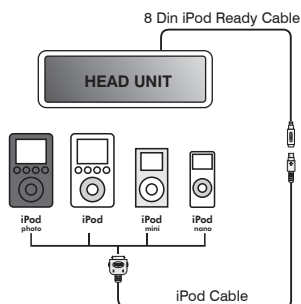
This unit is equipped with iPod Ready function which allow end user to have direct control of the iPod on the front panel control button and display iPod song information on the unit's LCD display. Please read below for more details operation.

### iPod Compatibility Chart

This unit is support following iPod software version

iPod 1G	Not Supported
iPod 2G	Not Supported
iPod 3G	Firmware Version 2.2
iPod Mini	All versions
iPod 4G	All versions
iPod Photo	All versions
iPod Nano	Nano All versions(Can not support 3G Nano)
iPod 5G(Video)	All versions

### Connect the iPod to this unit



### About Video File

This unit is **NOT ABLE** to select any VIDEO FILE OR VIDEO ALBUM which contained in the iPod Video. This unit will only automatically select Music Album or File regardless the connected Video iPod last playing is a Video File or Album.

### Turning iPod Power On and Off

The iPod power turns on automatically as soon as it is connected to the 30 Pin Connector and as long as the vehicle's ignition is turned ON. The iPod power can be turned OFF by removing the iPod from the 30 Pin Connector or if the vehicle's ignition is turned OFF. Under this condition the iPod will go into pause mode and goes into sleep mode about 2 minutes later

**NOTE** While the iPod is connected, the power cannot be turned on or off from the iPod itself.

**Tips** "OK to disconnect" to disconnect will be shown in the iPod's display while it is connected to the unit .



### iPod Battery Charging

While connected to the unit, the iPod will automatically start re-charging as long as the vehicle's ignition key is turn to ACC or ON.

### Switch to iPod Mode

When the Head unit is power on and iPod is connected to the 30 pin connector, press the Mode button to change to iPod Mode and the unit will display **IPOD** for a while then starts **READY** the music files contained in the iPod and the playback will automatically start. Press Mode button repeatedly to change to other modes or switch back to iPod mode.

### **iPod information Display on the Head Unit LCD**

This unit can display the Song, Artist, Album name and Elapsed time on the LCD display, these information can be displayed by pressing the INFO button repeatedly while a iPod Song file is playing.

### **Searching a Desire Song**

Under iPod playback mode, press BROWSE/BAND button to enter into the iPod Searching Mode. Pressing BROWSE/BAND button repeatedly to accesses the different searching methods as below :

- 1) **Playlist**
- 2) **Artist**
- 3) **Album**
- 4) **Song**
- 5) **Genre**

Once selected the desire searching method, within 10 second press the AUDIO button as confirm & access into the searching mode, then turn the rotate Encoder Volume Knob to navigate thru the Album or Artist or Song contained in the iPod. Press the AUDIO button to confirm & play the selected song. During the searching mode, press INFO as quick move back to the last upper level of Album, Playlist, Genre, etc.

### **Song Select**

Press the Track UP (>>) or Track DOWN (<<) button for less than one second to skip to the next or previous song. Press and Hold Track UP (>>) or Track DOWN (<<) button for more than 3 seconds to fast forward or fast reverse of the current song.

### **Song Repeat**

Press the M3 button for less than 3 seconds to "REPEAT PLAY" the current song. And keep on repeat playing the current song until the "REPEAT PLAY" function is disabled. To disable current song "REPEAT PLAY", press the M3 button less than 3 seconds.

### **Random Play: / Random Album**

Long press the M4 button for more than 3 seconds during iPod playback mode to activate the "RANDOM ALBUM" function. This function allows RANDOM playback of all the albums contained on the iPod. To disable "RANDOM ALBUM" function, long press M4 button for more than 3 seconds.

Press the M4 button for less than 3 seconds during iPod playback mode to activate "RANDOM PLAY". This function allows the playback of all the songs in the iPod in random sequence. To disable "RANDOM PLAY", short press M4 button again for less than 3 seconds.

## **15. BLUETOOTH HAND FREE OPERATION**

### **User Guide For Bluetooth Operation**

1. When user use our Bluetooth HEAD UNIT, please make sure the mobile phone you use must /does support Bluetooth functions (Headset or Handsfree profiles or both)
2. Before you start to use our Bluetooth HEAD UNIT, please make sure complete pairing with your mobile phone first. Please refer to the user manual, section "PAIRING" for detail "PAIRING" instruction. To ensure the best reception for Pairing or Re-connection, please make sure the Phone Battery is fully charged when making the Pairing or Re-connection.
3. Please always try pairing the Mobile Phone with Head unit after a few minutes of the Mobile Phone was Switched On to ensure the best pairing result.
4. "BT89" is this unit device model number which is displayed on the mobile phone.
5. To achieve the best performance, please always keep the Mobile Phone within 3 meters of the Head unit.
6. Please always keep a clear path between the Mobile Phone & the Head unit.
7. Never put any metal object or any obstacle between the path of the Mobile Phone & the Head unit.
8. Some brand of Mobile Phone like Sony Ericsson may have "Power Saving Mode" selection when Bluetooth mode is switched on. **PLEASE DO NOT** Switches ON Power saving Mode when operating with this Head Unit, as some abnormal communication behavior will happen occasionally if Power Saving Mode is switched on.
9. Before user make Outgoing call or Incoming call, make sure the mobile phone's "Bluetooth function" was switched "ON".
10. To ensure the best conversation quality / performance, please always keep talking within 1 meter of the Head Unit.
11. If user want to Dis-connect the Head unit with the Mobile Phone, please switch "OFF" Bluetooth connectivity on the Mobile Phone, or go to the system menu, "dis-connect" to disconnect the bluetooth connectivity manually. (please refer to the user manual, section "dis-connection of the bluetooth system for details instruction.)
12. Some Mobile Phones can support "IN BAND RING TONE", such as Nokia. In such case, the Incoming Ringing Tone will be same as the original Ring-tone of the Mobile Phone. But some Mobile Phones like Sony Ericsson do not support this feature. The Ring-tone will be using the standard Ring-tone of the Head unit.
13. When in telephone mode, during talking, it is highly recommended to set the volume to below "30" in order to achieve the best sound quality. As if the volume is too high, it may create unwanted echo inside the car, and this unwanted echo may feedback into the microphone.
14. If the Bluetooth related operation is not performing normally, like cannot make pairing, cannot making an outgoing call, User can try to make a SOFT-RESET of the Bluetooth module by removing / detaching the panel from the main unit and waiting for about 1 min. Then re-attach the panel to the unit & retry the Bluetooth operation again. Or user can RESET the whole unit by pressing the RESET button behind the panel.

**NOTE** By pressing the RESET button all the stored memory will resume to factory default

### **FAQ (Frequency Asking Questions)**

Q: Under phone conversation, if the voice output from the car's speakers is not loud enough.

A: Try increase the volume level of the head unit to a suitable sound level

Q: Under phone conversation, the "Listener" cannot hearing my voice loud enough

A: First, try asking the 'Listener' increase the volume level on his/her mobile phone, if still not loud enough, try to increase your mobile phone's volume.

Q: Under Phone conversation, the "Listener" can hear echo feedback.

A: Your unit's speaker volume level is too loud which cause the voice feedback into the built-in microphone, this can be corrected by decreasing the volume level.

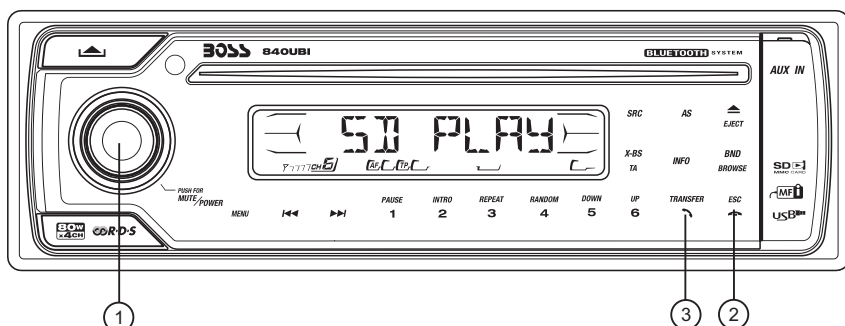
Q: Under Phone conversation, the "Listener" complain the background is too noisy

A: May be you are in a noisy environment. Try close the car's window to shield the environment / background noise under phone conversation.

Q: If the Mobile Phone already paired with the headunit, but after several calls, the incoming calls cannot access thru the headunit.

A: May be the paired Mobile Phone lost the Bluetooth connection with the headunit. In this case, please go to the "MENU" & select "re-connect" to reconnect the headunit with the paired Mobile Phone. For details, please refer to the MENU operation "re-connection".

### **Bluetooth Hand Free Panel Function Key Matrix**



	Panel Function Button	Bluetooth Hand Free Function
1	Encoder Volume Knob ( Short Press )	Confirm to answer an incoming call
2	Call/Esc ( Short Press )	1. Reject Incoming call 2. End a call
3	Phone/Transfer ( Long Press )	Transfer Phone Conversation back to Mobile Phone

## **PAIRING**

### **Pairing The Bluetooth System Between Mobile Phone & The Unit**

- Open your Mobile Phone and switch Bluetooth to on, and search Bluetooth device.
- "BT89" should appear in the pairing list on the Mobile Phone. User need to select "BT89" and then input the password "1234".  
If the pairing is successful, the display will show Mobile Phone Name or Model Number.
- If the pairing successful, " **PAIR OK** " will be flashing on the Display for 3 seconds. And the unit will switch back to the previous mode automatically.
- If the pairing failed, " **PAIR FAIL** " will be flashing on the Display for 3 seconds. And the unit will switch back to the previous mode automatically.

**NOTE** ➤ During the Pairing, only Power, Phone/Transfer ,Encoder Volume Knob & Mute are functional, other function keys are disabled & non-operational during the pairing mode.

### **Re-Connection Of The Bluetooth System**

The unit is with built -in Auto-Reconnection function. In some conditions, user need to reconnect manually. For example like the following.

- If the Mobile Phone is out of range.( 2 meters away from the Head unit) Under the condition of lost connection when the user come back to the unit. At the same time, there is an incoming call or user is under conversation on the Mobile Phone 2 meters away from the Head Unit and come back to Head unit.
- If user wants Audio Transfer back from Mobile Phone to Head unit. It needs to re-connect manually.

The unit can be re-connected by the following methods.

- Access into System Menu - RE-CON mode to activate the manual RE-Connection.

**NOTE** ➤ Please refer System Menu Setting for more details of how to access into System Menu mode.

- Once the **RE-CON** is display on the LCD , press the AUDIO button to activate the manual Re-Connect mode.

**NOTE** ➤ 1. Please keep the Mobile Phone within 2 Meter from the unit when making the connection.

**NOTE** ➤ 2. The manual re-connect is only function with the Mobile Phone has already been paired with the unit before.

- The LCD Display will displayed " **WAIT** " during the connecting period.
- If the re-connection is successful, the LCD Display will display " **OK CONNECT** ". And the unit will switch back to the previous mode automatically.
- If the re-connection failed, the LCD Display will display " **FAIL CONNECT** ". And the unit will switch back to the previous mode automatically.

The unit will be Auto Re-Connection by following operation .

- Every time turn the ignition key from off to on, the unit will Auto re-connect with the Mobile Phone.

## **Dis-Connection of the Bluetooth System**

The unit have a option function for user to disconnect the Bluetooth system with the unit. The unit can be Dis-connected by the following methods.

- Access into System Menu - DIS-CONN mode to activate the manual Dis-Connection.  
**NOTE** Please refer System Menu Setting for more details of how to access into System Menu mode.
- Once the “ **DIS-CONN** ” is display on the LCD, press the AUDIO button to activate the manual Dis-Connect mode.
- If the Dis-Connection is successful, the LCD Display will display “ **DIS CONNECT OK** ”. And the unit will switch back to the previous mode automatically.

## **INCOMING CALL**

### **ANSWERING AN INCOMING CALL**

- When there is an incoming call, the display will display the Phone Number. If the incoming call has no caller number, the LCD will display **PHONE IN** user can short press the PHONE/TRANSFER button answer / accept the call.

**NOTE** Always press the PHONE/TRANSFER button answer / accept the call **after** the LCD display the “ Incoming caller telephone number ”.

The audio output of the present mode will be muted and the ringing tones will be heard, if an incoming call is not being answered.

- User can use the Encoder Volume Knob to adjust the volume level.
- To end the conversation, press the “CALL/RETURN” button. The unit will switch back to the previous mode automatically and release the mute of the previous mode at the same time.

**NOTE** An Incoming call under stand by mode (Ignition on & Power Off), the system will automatically switch on the head unit.

While there is an Incoming call or under talking mode, the Panel Open/Eject key is dis-activated.

### **Rejecting An Incoming Call**

- User can press “CALL/RETURN” button to reject the incoming call.  
**NOTE** The audio output of the present mode will be muted and the ringing tones will be heard if an incoming call is not being answered. After pressing the “CALL/RETURN” button, the mute of the present mode will be released.



## **OUTGOING CALL**

### **Making An Outgoing Call**

- User can use his / her Mobile Phone to dial and make an outgoing call. Once the user has completed the dialling, the display should show “**CALL**”.

**NOTE** The audio output of the present mode will ONLY be muted after pressing the “PHONE” button as a confirmation to dial the outgoing call.

While there is an outgoing call or under talking mode, the Panel Open/Eject key is dis-activated.

- During the talking mode, the LCD Display will display the duration “**TALK**” of the conversation.
- User can use the Encoder Volume Knob to adjust the volume level.
- To end the conversation, press the “CALL/RETURN” button. The unit will switch back to the previous mode automatically. The mute of the previous mode will be released at the same time.
- During the talking mode, if the Ignition is being turned off, the unit will keep the conversation even if the Ignition is Switched off. After finished the conversation, User can press “CALL/RETURN” button to switch off the unit.

## **CALL TRANSFER**

### **TO AUDIO TRANSFER FROM HEAD UNIT BACK TO THE MOBILE PHONE**

- During the talking mode, user can long press the “PHONE/TRANSFER” button to transfer the audio from the unit back to the Mobile Phone for privacy reason. The LCD Display will display “**TRANSFER**” on the LCD for 3 seconds.

**NOTE** After the “PHONE/TRANSFEER ” button is pressed, the present mode will be muted at the same time, user can press the Mute button to release the Mute.

When making an outgoing call, it's not possible to CALL TRANSFER if the call is not being answered yet.. It's only possible to Transfer the call to Mobile Phone after the call is being answered.

Depending on different type of Mobile Phone, the time need for activating the CALL TRANSFER mode is different. Like Nokia Mobile Phone usually takes 3-5 seconds after pressed the “PHONE/TRANSFER” button for audio transfer back or forth through Unit to Mobile Phone.

## **Bluetooth Audio Streaming A2DP (Advanced Audio Distribution Profile)**

User can listen to music files on an audio device on this unit if the audio device supports A2DP (Advanced Audio Distribution Profile) of Bluetooth Technology. Please read the below instruction before operating the Bluetooth Audio streaming function on this unit.

### **Connecting A Bluetooth Audio Device With This Unit**

Before using audio device to play music on this unit, the audio device must be paired with this unit first.

- NOTE** ➤ a. For the details operation of Pairing with this unit, Please refer to the PAIRING operation for more details.  
b. How to use the Bluetooth audio device to pair with this unit, please refer to the instruction manual of the Bluetooth device.

**Tips** If the audio device has both HFP (Hands Free Profile) and A2DP (Advance Audio Distribution Profile), this unit will automatically pairing these two profiles at the same time. For ex, if a mobile phone has both HFP & A2DP profile and this mobile phone is already HFP paired with this unit, in this case A2DP audio device pairing is not necessary. And this paired mobile phone will be added automatically to the list of PAIRED DEVICE – AUDIO of this unit. Please refer to MENU of BT for details of PAIRED DEVICE operation.

### **Listening To Music From An Audio Device In This Unit**

- (1) Connect this unit with the audio device.

**NOTE** ➤ For the details operation of connecting with this unit, Please refer to the CONNECTING operation for more details.

- (2) Press MODE button repeatedly until “BT AUDIO” appears on the display.

**IMPORTANT:** To listen Bluetooth audio streaming from the audio device, user **MUST** change the mode to “BT AUDIO” first. Any other mode of this unit is not able to activate the Bluetooth audio streaming ( A2DP ) function.

**NOTE** ➤ If the audio device is the connectivity or no audio device is connecting with this unit, after mode changed to BT AUDIO mode, the display will show **BT AUDIO**, and if after a 20 seconds time out still cannot find any audio device for connecting, the unit will display **FAIL CONNECT** for 3 seconds then turn to the Tunner Mode.

- (3) Once in the “BT AUDIO” mode, user can use the audio device to start playback the song via Bluetooth wireless with this unit.

**NOTE** ➤ When mode change to BT AUDIO mode, some of the audio device may auto playback the music without operate the music playback operation and some of the device like mobile phone may need to first change into the 'Media Player' mode on the mobile phone otherwise the song cannot be direct playback via Bluetooth wireless. If the auto playback not support on the audio device then please refer to the instruction manual of the audio device on how to operate music playback via Bluetooth wireless technology.

## **Operating an audio device with this unit AVRCP ( Audio Video Remote Control Profile )**

This unit can perform the following operations with the connecting Audio device which supports AVRCP (Audio Video Remote Control Profile) & only if the Audio device does support AVRCP.

- (1) Start playing - Every time when user change mode into "BT AUDIO" mode, this unit will automatically send a "PLAY" command via AVRCP to the audio device to command the auto start playing song in the audio device.

**NOTE** The PLAY command may differs depending on the Audio device. If the Audio device is not able auto start playing song after changed mode into "BT AUDIO" mode, user may need to operate the PLAY mode on the audio device to start the song playback.

- (2) Track up / down - by pressing the Track up / down buttons on this unit.
- (3) Pause / Play – by pressing the Pause / Play button on this unit.
- (4) Volume up / down – by rotating the Encoder Volume Knob on this unit.
- (5) Audio Mute – by pressing the Mute button on this unit.
- (6) Stop playback – by mode changing mode into any other mode of this unit.

**NOTE** The AVRCP operation may differ depending on the audio device, all the other operation other than those listed above should be performed on the audio device.

## **Hands-free Phoning While Bluetooth Audio Streaming**

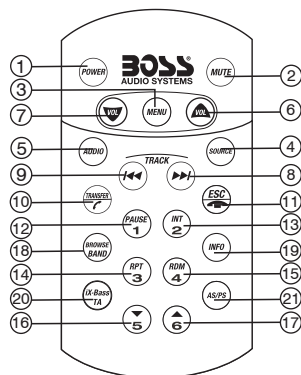
If the connecting playback audio device is a mobile phone, all the hands free function is still available under the Bluetooth audio streaming, like the answering incoming call, making an outgoing call, etc.

## **Disconnecting An Audio Device With This Unit**

User can close the Bluetooth Audio connection by disconnecting with the audio device.

**NOTE** The details operation of disconnecting with this unit, please refer to the DISCONNECTION operation for more details.

# 16. REMOTE FUNCTION



## OPERATIONS:

KEY	SYSTEM		TUNER		CD/MP3/WMA		Bluetooth		iPod	
	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press
1	Power									
2	Mute									
3	Audio Menu	System Menu								
4	Mode				Enter					
5	Audio									
6	Volume Up									
7	Volume Down									
8			Seek Up	Tune Up	Track/File Up	Fast Forward			File Up	Fast Forward
9			Seek Down	Tune Down	Track/File Down	Fast Backward			File Down	Fast Backward
10							Phone	Transfer		
11	Return						Reject End call			
12			M1	Memory 1	Pause /Play				Pause /Play	
13			M2	Memory 2	Intro	Folder Intro				
14			M3	Memory 3	Repeat	Folder Repeat			Repeat	Album Repeat
15			M4	Memory 4	Random	Folder Random			Random	Album Random
16			M5	Memory 5	Folder Down					
17			M6	Memory 6	Folder Up					
18			Band		File Browse				iPod Browse	
19			Info		Info				iPod Info	
20		iX-Bass	TA							
21			PS	AS						

# 17. SPECIFICATIONS

## EN

### CD PLAYER

System	Compact disc audio system
Usable disc	Compact disc
Sampling frequency	44.1KHz
No of quantization bits	1bit
Frequency	5-20,000Hz
Number of channels	2 stereo
S/N Ratio	70dB

### MEDIA SECTION

USB Host	Host: 1.1 compatibles 2.0
Memory Card	
Support Type of Memory Card	SD and MMC

### RADIO SECTION

FM	Frequency Range	87.5-107.9MHz U.S. 87.5-108MHz EURO
Intermediate Frequency	10.7 MHz	
Usable Sensitivity	Better than 15dB at S/N 30 dB	
Stereo Separation	25 dB at 1KHz	
S/N Ratio	50 dB	

### AM/MW

Frequency Range	530-1710KHz U.S. 522-1620KHz EURO
Intermediate Frequency	450KHz
Usable Sensitivity	Better than 45dB
S/N Ratio	40 dB

### BLUETOOTH

Power Consumption	200mA Max.
Output Power	0 dBm (Class II)
Frequency Band	2.4GHz ~ 2.4835GHz ISM Band
Range	3 meters (free space)
Standard	Bluetooth 2.0 specification

### GENERAL

Power Supply	DC 11-14V
Polarity	Negative Ground
Speaker Impedance	4 ohms
Power Output	4x 80 Watts

### REMARK :

Specifications subject to change without notice.

## DE

### CD PLAYER

System	Compact Disc Audio System
Adspielbare Discs	Compact Disc
Sampling-Frequenz	44,1 KHz
Anzahl Quantisierungsbits	1 bit
Frequenz	5-20.000Hz
Anzahl Kanäle	2 Stereo
Signalausabstand	70 dB

### SPEICHERMEDIEN

USB-Anschluss:	USB 1.1 (USB 2.0 kompatibel)
Speicherkarten:	SD, MMC

### RADIOTEIL

FM	Frequenzbereich	87,5-107,9MHz U.S. 87,5-108MHz EURO
Zwischenfrequenz	10,7 MHz	
Nutzbare Empfindlichkeit	Better than 15dB at S/N 30 dB	
Stereotrennung	25 dB at 1KHz	
Signalausabstand	50 dB	

### AM/MW

Frequenzbereich	530-1710KHz U.S. 522-1620KHz EURO
Zwischenfrequenz	450KHz
Nutzbare Empfindlichkeit	Better than 45dB
Signalausabstand	40 dB

### BLUETOOTH

Stromverbrauch	Max 200mA
Ausgangsleistung	0 dBm (Klasse II)
Reichweite	max. 3m
Standard	Bluetooth Vers. 2.0
Frequenz	2,4GHz-2,4835GHz

### ALLGEMEINES

Stromversorgung	DC 11-14 V
Polarität	Erde negativ
Lautsprecherimpedanz	4 Ohm
Ausgangsleistung	80 W x 4

### ANMERKUNG:

Technische Änderungen ohne Meldepflicht vorbehalten.

## FR

### LECTEUR CD

Système	Compact disc audio system
Disques utilisables	Compact disc
Frequéce échantillonnage	44,1KHz
Nbre de quantisation bits	1bit
Frequéce	5-20,000Hz
Nombre de canaux	2 stéréo
Ratio S/B	70dB

### SECTION MEDIA

USB HOST	Host: 1.1 Compatibles 2.0
Cartes mémoires	
Type de carte mémoire pris en charge	SD et MMC

### SECTION RADIO

FM	Gamme de fréquences	87.5-107.9MHz U.S. 87.5-108MHz EURO
Fréquence intermédiaire	10.7 MHz	
Sensibilité utilisable	Better than 15dB at S/N 30 dB	
Séparation stéréo	25 dB at 1KHz	
Ratio S/B	50 dB	

### AM/MW

Plage de fréquences	530-1710KHz U.S. 522-1620KHz EURO
Fréquence intermédiaire	450KHz
Sensibilité utilisable	Better than 45dB
Rapport Signal/Bruit	40 dB

### BLUETOOTH

Courant absorbé	200mA Max.
Puissance de sortie	0dB (Classe II)
Bande de Fréquence	2.4 GHz ~ 2.4835GHz bande ISM
Rayon d'action	3 mètres (espace dégagé)
Standard	Bluetooth 2.0 specification

### GENERAL

Alimentation	11-14V DC
Polarité	Masse / négative
Résistance des enceintes	4 ohms
Puissance de sortie	80W x 4

### REMARQUE :

Les specifications sont susceptibles d'être modifiées sans préavis.

## PT

### CD Player

Sistema:	Sistema áudio CD
Tipo de disco:	CD
Frequência de Amostragem:	44.1KHz
Conversor D/A:	1bit
Resposta de frequência	5-20,000Hz
Número de canais:	2 estereio
Relação sinal/ruído:	70dB

### Seção Mídia

Porta USB	USB1.1, compatível com 2.0
Cartão de memória	
Tipo de cartão compatível	SD e MMC

### Rádio FM

Faixa de Frequência:	87.5-107.9MHz U.S. 87.5-108MHz EURO
Frequência Intermediária:	10.7 MHz
Sensibilidade útil:	Better than 15dB at S/N 30 dB
Separação estéreo	25 dB at 1KHz
Relação Sinal/Ruído	50 dB

### AM/MW

Faixa de frequência:	530-1710KHz U.S. 522-1620KHz EURO
Frequência Intermediária:	450KHz
Sensibilidade útil:	Better than 45dB
Relação Sinal/Ruído:	40 dB

### BLUETOOTH

Consumo	200mA Max.
Potência de saída	0 dB (Classe II)
Banda de Frequência	2.4GHz ~ 2.4835GHz
Alcance	3 metros (espaço aberto)
Standard	Especificações Bluetooth 2.0

### Geral:

Alimentação:	DC 11-14V
Polaridade:	Terra negativo
Impedância alto-falantes:	4ohms
Potência de saída:	80W x 4

### Nota:

As especificações estão sujeitas a alterações sem prévio aviso.

## ES

### CD PLAYER

Sistema:	Compact disc audio system.
Disco:	Compact Disc.
Frecuencia Muestreo:	44.1KHz.
Quantificación:	1bit.
Frecuencia:	5-20,000Hz.
Número de canales:	2 estereo.
Relación señal/ruído S/N Ratio	70dB.

### PUERTO USB/SLOT

TARJETAS SD/MMC	
Puerto USB:	Host 1.1 compatible con 2.0
Slot tarjetas:	Esta unidad soporta tarjetas SD/MMC

### RADIO SECCIÓN

FM	Rango Frecuencia:	87.5-107.9MHz U.S. 87.5-108MHz EURO
Frecuencia Intermedia:	10.7 MHz	
Sensibilidad Util:	Better than 15dB at S/N 30 dB	
Separación estéreo:	25 dB at 1KHz	
S/N Ratio:	50 dB	

### AM/MW

Rango Frecuencia:	530-1710KHz U.S. 522-1620KHz EURO
Frecuencia Intermedia:	450KHz
Sensibilidad útil:	Better than 45dB
S/N Ratio:	40 dB

### BLUETOOTH

Consumo potencia	200mA Max.
Potencia Salida	0dBm (Clase II)
Banda Frecuencias	2.4GHz ~ 2.4835GHz ISM Band
Rango	3 metros (Espacio libre).
Estándar	Especificación Bluetooth 2.0

### GENERAL

Alimentación:	DC 11-14V
Polaridad:	Negativo a masa.
Impedancia altavoces:	4 Ohms.
Potencia de salida:	4x80W.

### Nota:

Debido al rápido avance tecnológico, estas especificaciones están sujetas a cambios sin previo aviso.

## IT

### LETTORE CD

Sistema	Sistema di Audio CD
Tipo di disco	CD
Frequenza di campionatura	44.1KHz
N° quantizzazioni Bit	1 bit
Frequenza	5-20,000 Hz
Numero di Canali	2 stereo
Rapporto S/N	70dB

### SEZIONE MEDIA

USB Host	1.1 compatibili 2.0
Scheda di memoria	
Schede supportate	SD e MMC

### SEZIONE RADIO

FM	Raggio di Frequenza	87.5-107.9MHz U.S. 87.5-108MHz EURO
Frequenza intermedia	10.7 MHz	
Sensibilità	Better than 15dB at S/N 30 dB	
Separazione Stereo	25 dB at 1KHz	
Rapporto S/N	50 dB	

### AM/MW

Raggio di Frequenza	530-1710KHz U.S. 522-1620KHz EURO
Frequenza intermedia	450KHz
Sensibilità	Better than 45dB
Rapporto S/N	40 dB

### BLUETOOTH

Consumo di energia	200mA max.
Potenza di uscita	0 dBm (Classe II)
Banda di frequenza	2.4 GHz ~ 2.4835GHz ISM
Portata	3 metri (spazio libero)
Standard	Bluetooth specifica 2.0

### GENERALE

Alimentazione	DC11-14V
Polarità	Terra negativo
Impedenza altoparlanti	4 ohms
Potenza d'uscita	4x80 Watts
Le specifiche sono soggette a cambiamenti senza alcun preavviso.	

## 18. TROUBLE SHOOTING

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power	The car ignition is not on.	If the power supply is properly connected to the car accessory terminal, switch the ignition key to "ACC"
	The fuse is blown.	Replace the fuse.
Disc cannot be loaded or ejected	Presence of CD disc inside the player.	Remove the disc in the player, then put a new one.
	Inserting the disc in reverse direction.	Insert the compact disc with the label facing upward.
	Compact disc is extremely dirty or defective disc.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature returns to normal.
	Condensation.	Leave the player to off for an hour or so, then try again.
No sound	Volume is in minimum.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise.	Press the RESET button. Front panel is not properly fixed into its place
Sound skips.	The installation angle is more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirty or a defective disc.	Clean the compact disc or try to play a new one.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.
ERROR 1	Mechanism Error	Press the reset button to correct the problem. If the error code does not disappear, consult your nearest service dealer.
Read Error	The Media Device not able to play file by the unit	Replace the Media Device or
No File	No file Format supports for Playback on the disc or Media Device	Replace the disc or Media Device..
Disc Error	Maybe disc dirty / disc scratched /disc upside down.	Replace the disc.



**If at any time in the future you should need to dispose of this product please note that Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.(Waste Electrical and Electronic Equipment Directive)**